

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A semiconductor integrated circuit device comprising:
 - a semiconductor chip having a main surface including semiconductor elements and a plurality of bonding pads;
 - a leadframe having:
 - a chip mounting portion for mounting said semiconductor chip;
 - suspension leads [unitarily]formed with said chip mounting portion, a width of said chip mounting portion being wider than a width of each of said suspension leads,
 - a plurality of inner lead portions [arranged to surround said semiconductor chip and being]electrically connected with said bonding pads by bonding wires, and
 - a plurality of outer lead portions individually connected with said inner lead portions; and
 - a resin member sealing said semiconductor chip, said inner lead portions, said chip mounting portion, said suspension leads and said bonding wires;
 - wherein said chip mounting portion is smaller than said semiconductor chip and is positioned under a substantially central portion of said semiconductor chip, said semiconductor chip is fixed to said chip mounting portion by adhesive, said semiconductor chip is fixed to a part of each of said suspension leads by adhesive

which is located under a peripheral portion of said semiconductor chip, and an adhesive region of said chip mounting portion and said semiconductor chip and an adhesive region of each of said suspension leads and said semiconductor chip are separated from each other and wherein said suspension leads and said chip mounting portion of said leadframe are continuously formed in an area of said semiconductor chip.

2. (Previously Presented) A semiconductor integrated circuit device according to claim 1, wherein each of said suspension leads includes a first portion and a second portion which is wider than said first portion, wherein said second portion is separated from said chip mounting portion and is positioned under said peripheral portion of said semiconductor chip, and wherein said semiconductor chip is fixed at said second portion of each of said suspension leads.

3. (Previously Presented) A semiconductor integrated circuit device according to claim 1, wherein said semiconductor chip is of a tetragonal shape.

4. (Previously Presented) A semiconductor integrated circuit device according to claim 1, wherein said semiconductor chip includes a rear surface opposing said main surface and is fixed to said chip mounting portion and said suspension leads at one portion of said rear surface, and wherein the other portion of said rear surface which is exposed from said chip mounting portion and said suspension leads is directly contacted to said resin member.

5. (Previously Presented) A semiconductor integrated circuit device according to claim 2, wherein said semiconductor chip is a rectangular shape and said suspension leads include four suspension leads, and wherein four corners of said rectangular-shaped semiconductor chip are supported by said four suspension leads.

6. (Previously Presented) A semiconductor integrated circuit device according to claim 5, wherein said resin member has a rectangular shape, and wherein said outer lead portions are extended outwardly from four sides of said rectangular-shaped resin member.

7. (Previously Presented) A semiconductor integrated circuit device according to claim 6, further comprising:
a plurality of grooves for positioning the semiconductor chip, said grooves each formed on said four suspension leads.

8. (Previously Presented) A semiconductor integrated circuit device according to claim 6, further comprising:
a plurality of projections for positioning the semiconductor chip, said projections each formed on said four suspension leads.

9. (Previously Presented) A semiconductor integrated circuit device according to claim 7, wherein said grooves are arranged on said four suspension leads so as to accord to four corners of said rectangular-shaped semiconductor chip.

10. (Previously Presented) A semiconductor integrated circuit device according to claim 8, wherein said projections are arranged on said four suspension leads so as to accord to four corners of said rectangular-shaped semiconductor chip.

11. (Currently Amended) A semiconductor integrated circuit device comprising:

a semiconductor chip having a main surface including semiconductor elements and a plurality of bonding pads;

a leadframe having:

a cracking suppression means for mounting said semiconductor chip thereon and for suppressing, during a reflow soldering processing, device cracking, wherein said cracking suppression means is a chip mounting portion which is smaller than said semiconductor chip and which is positioned under a substantially central portion of said semiconductor chip,

suspension leads [unitarily]formed with said chip mounting portion, a width of said chip mounting portion being wider than a width of each of said suspension leads,

a plurality of inner lead portions [arranged to surround said semiconductor chip and being]electrically connected with said bonding pads by bonding wires, and

a plurality of outer lead portions individually connected with said inner lead portions; and

a resin member sealing said semiconductor chip, said inner lead portions, said chip mounting portion, said suspension leads and said bonding wires;

wherein said semiconductor chip is fixed to said chip mounting portion by adhesive, said semiconductor chip is fixed to a part of each of said suspension leads by adhesive which is located under a peripheral portion of said semiconductor chip, and an adhesive region of said chip mounting portion and said semiconductor chip and an adhesive region of each of said suspension leads and said semiconductor chip are separated from each other and wherein said suspension leads and said chip mounting portion of said leadframe are continuously formed in an area of said semiconductor chip.

12. (Previously Presented) A semiconductor integrated circuit device according to claim 11, wherein said semiconductor chip includes a rear surface opposing said main surface and is fixed to said chip mounting portion and said suspension leads at one portion of said rear surface, and wherein the other portion of said rear surface which is exposed from said chip mounting portion and said suspension leads is directly contacted to said resin member.

13. (Currently Amended) A semiconductor integrated circuit device comprising:

a semiconductor chip having a main surface including semiconductor elements and a plurality of bonding pads;

a leadframe having:

a chip mounting portion for mounting said semiconductor chip,

suspension leads [unitarily] formed with said chip mounting portion, a width of said chip mounting portion being wider than a width of each of said suspension leads,

a plurality of inner lead portions [arranged to surround said semiconductor chip and being] electrically connected with said bonding pads by bonding wires, and

a plurality of outer lead portions individually connected with said inner lead portions; and

a resin member sealing said semiconductor chip, said inner lead portions, said chip mounting portion, said suspension leads and said bonding wires;

wherein said chip mounting portion is smaller than said semiconductor chip and is positioned under a substantially central portion of said semiconductor chip, said semiconductor chip is fixed to said chip mounting portion by adhesive, said semiconductor chip is fixed to a part of each of said suspension leads by adhesive which is located under a peripheral portion of said semiconductor chip, and an adhesive region of said chip mounting portion and said semiconductor chip and

an adhesive region of each of said suspension leads and said semiconductor chip are separated from each other.

14. (Currently Amended) A semiconductor integrated circuit device comprising:

a semiconductor chip having a main surface including semiconductor elements and a plurality of bonding pads;

a leadframe having:

a cracking suppression means for mounting said semiconductor chip thereon and for suppressing, during a reflow soldering processing, device cracking, wherein said cracking suppression means is a chip mounting portion which is smaller than said semiconductor chip and which is positioned under a substantially central portion of said semiconductor chip,

suspension leads [unitarily]formed with said chip mounting portion, a width of said chip mounting portion being wider than a width of each of said suspension leads,

a plurality of inner lead portions [arranged to surround said semiconductor chip and being]electrically connected with said bonding pads by bonding wires, and

a plurality of outer lead portions individually connected with said inner lead portions; and

a resin member sealing said semiconductor chip, said inner lead portions, said chip mounting portion, said suspension leads and said bonding wires;

wherein said semiconductor chip is fixed to said chip mounting portion by adhesive, said semiconductor chip is fixed to a part of each of said suspension leads by adhesive which is located under a peripheral portion of said semiconductor chip, and an adhesive region of said chip mounting portion and said semiconductor chip and an adhesive region of each of said suspension leads and said semiconductor chip are separated from each other.

15.- 56. (Cancelled)

57. (Currently Amended) A semiconductor device comprising:

(a) a semiconductor chip having a plurality of semiconductor elements and bonding pads formed on a main surface thereof and a rear surface opposite to said main surface;

(b) a lead frame having a first surface and a second surface opposite to said first surface, said lead frame having:

a chip mounting portion for mounting said semiconductor chip;

suspension leads continuously formed with said chip mounting portion;

a plurality of leads each having an inner lead portion and an outer lead portion continuously formed with said inner lead portion and being arranged at a periphery of said chip mounting portion;

(c) a plurality of bonding wires electrically connected to said inner lead portions of said plurality of leads with said bonding pads of said semiconductor chip, respectively; and

(d) a resin member sealing said semiconductor chip, said bonding wires, said chip mounting portion and said inner lead portions of said plurality of leads,

wherein a size of said chip mounting portion is smaller than that of said semiconductor chip,

wherein said semiconductor chip is mounted on said chip mounting portion, such that said rear surface of said semiconductor chip is bonded to the side of said first surface of said chip mounting portion by an adhesive, such that said rear surface of said semiconductor chip is bonded to a part of each of suspension leads by an adhesive, and such that a part of each of said suspension leads, which is located under said semiconductor chip, is spaced from said rear surface of said semiconductor chip,

wherein said chip mounting portion is positioned under a substantially central portion of said semiconductor chip, and

wherein said suspension leads and said chip mounting portion of said lead frame are continuously formed in an area of said semiconductor chip.

58. (Previously Presented) A semiconductor device according to claim 57, wherein said adhesive layer is provided on said first surface of said chip mounting portion and is not provided on said part of each of said suspension leads which is located under said semiconductor chip.

59. (Previously Presented) A semiconductor device according to claim 58, wherein a part of said rear surface of said semiconductor chip, which is located outside said chip mounting portion, is adhered to a part of said resin member.

60. (Previously Presented) A semiconductor device according to claim 59, wherein said resin member includes a thermosetting resin.

61. (Previously Presented) A semiconductor device according to claim 57, wherein said adhesive layer includes an epoxy resin.

62. (Currently Amended) A semiconductor device comprising:

(a) a semiconductor chip having a plurality of semiconductor elements and bonding pads formed on a main surface thereof and a rear surface opposite to said main surface;

(b) a lead frame having a first surface and a second surface opposite to said first surface, said lead frame having:

a chip mounting portion for mounting said semiconductor chip;

suspension leads continuously formed with said chip mounting portion;

a plurality of leads each having an inner lead portion and an outer lead portion continuously formed with said inner lead portion and being arranged at a periphery of said chip mounting portion;

(c) a plurality of bonding wires electrically connected to said inner lead portions of said plurality of leads with said bonding pads of said semiconductor chip, respectively; and

(d) a resin member sealing said semiconductor chip, said bonding wires, said chip mounting portion and said inner lead portions of said plurality of leads,

wherein a size of said chip mounting portion is smaller than that of said semiconductor chip,

wherein said semiconductor chip is bonded to said chip mounting portion by an adhesive between said rear surface of said semiconductor chip and said first surface of said chip mounting portion,

wherein each of said suspension leads has a part which is located under said semiconductor chip,

wherein a part of said resin member is formed between said part of each of said suspension leads and said rear surface of said semiconductor chip,

wherein said chip mounting portion is positioned under a substantially central portion of said semiconductor chip,

wherein said semiconductor chip is bonded to said part of each of suspension leads by an adhesive between said rear surface of said semiconductor chip and said first surface of said part of each of suspension leads, and

wherein said suspension leads and said chip mounting portion of said lead frame are continuously formed in an area of said semiconductor chip.

63. (Currently Amended) A semiconductor device comprising:

(1) a semiconductor chip having a main surface and a rear surface opposite to said main surface, said semiconductor chip having a plurality of semiconductor elements and bonding pads formed on said main surface;

(2) a lead frame including:

a first suspension lead for supporting said semiconductor chip, extending in a first direction;

a second suspension lead for supporting said semiconductor chip, extending in a second direction which is different from said first direction, said second suspension lead intersecting said first suspension lead; and

a plurality of leads each having an inner lead and an outer lead which is continuously formed with said inner lead, said plurality of leads being arranged to extend toward an intersecting portion of said first and second suspension leads;

(3) a plurality of bonding wires electrically connecting said inner leads of said plurality of leads with said plurality of bonding pads, respectively; and

(4) a resin body sealing said semiconductor chip, said inner leads of said plurality of leads, said first and second suspension leads and said plurality of bonding wires;

wherein said semiconductor chip is disposed on and supported by said intersecting portion of said first and second suspension leads, with said first and second suspension leads being formed with one another,

wherein a width of each of said first and second suspension leads supporting said semiconductor chip at the vicinity of said intersecting portion is wider than that of each of said first and second suspension leads at vicinities beyond said semiconductor chip, and widened portions of said first and second suspension leads are smaller than said semiconductor chip,

wherein said rear surface of said semiconductor chip is fixed to said first and second suspension leads by an adhesive at least two of said widened portions of said first and second suspension leads, at positions separated from each other,

wherein said intersecting portion is positioned under a substantially central portion of said semiconductor chip,

wherein said rear surface of said semiconductor chip is fixed to said intersecting portion by an adhesive,

wherein said rear surface of said semiconductor chip is fixed to said widened portions of said first and second suspension leads by an adhesive, and

wherein said suspension leads and said intersecting portion are continuously formed in an area of said semiconductor chip.

64. (Previously Presented) A semiconductor device according to claim 63, wherein said first and second suspension leads intersect each other at a substantially right angle.

65. (Previously Presented) A semiconductor device according to claim 64, wherein said resin body has a tetragonal shape, wherein said outer leads of said plurality of leads protrude outwardly from four sides of said resin body, and wherein said first and second suspension leads extend from said intersecting portion toward four corners of said resin body.

66. (Previously Presented) A semiconductor device according to claim 63, wherein a portion of said rear surface of said semiconductor chip is adhered to said intersecting portion of said first and second suspension leads, and wherein another portion of said rear surface of said semiconductor chip is contacted with said resin body.

67. (Previously Presented) A semiconductor device according to claim 64, wherein said semiconductor chip has a tetragonal shape, and wherein said wider portion at the vicinity of said intersecting portion of said first and second suspension leads extends from a central portion of said rear surface of said semiconductor chip toward four corners of said semiconductor chip.

68. (Currently Amended) A semiconductor device comprising:

(1) a semiconductor chip having a main surface and a rear surface opposite to said main surface, said semiconductor chip having a plurality of semiconductor elements and bonding pads formed on said main surface;

(2) a lead frame including:

a chip mounting portion for mounting said semiconductor chip, wherein said chip mounting portion is smaller than said semiconductor chip;

a plurality of suspension leads which are formed with said chip mounting portion; and

a plurality of leads each having an inner lead and an outer lead which is continuously formed with said inner lead, said plurality of leads being arranged to extend toward said chip mounting portion;

(3) a plurality of bonding wires electrically connecting said inner leads of said plurality of leads with said plurality of bonding pads, respectively; and

(4) a resin body sealing said semiconductor chip, said inner leads of said plurality of leads, said chip mounting portion, said plurality of suspension leads and said plurality of bonding wires;

wherein said chip mounting portion has a first portion extending in a first direction and a second portion extending in a second direction which is a different direction from said first direction, said second portion intersecting said first portion,

wherein a width of each of said first and second portions of said chip mounting portion is wider than that of each of said plurality of suspension leads,

wherein both ends of each of said first and second portions of said chip mounting portion are coupled with said plurality of suspension leads respectively,

wherein an intersecting portion of said first and second portions of said chip mounting portion is located at a substantially central portion of said rear surface of said semiconductor chip,

wherein said both ends of each of said first and second portions of said chip mounting portion are located toward the peripheral portions of said rear surface of said semiconductor chip,

wherein said rear surface of said semiconductor chip is fixed to said chip mounting portion by an adhesive at least two of said widened portions of said first and second suspension leads, at positions separated from each other,

wherein said rear surface of said semiconductor chip is fixed to said chip mounting portion by an adhesive,

wherein said rear surface of said semiconductor chip is fixed to said widened portions of said first and second suspension leads by an adhesive, and

wherein said suspension leads and said chip mounting portion of said lead frame are continuously formed in an area of said semiconductor chip.

69. (Previously Presented) A semiconductor device according to claim 68, wherein said first and second directions intersect each other at a substantially right angle.

70. (Previously Presented) A semiconductor device according to claim 69, wherein said resin body has a tetragonal shape, wherein said outer leads of said plurality of leads protrude outwardly from four sides of said resin body, and wherein said plurality of suspension leads extend from said both ends of said first and second portions of said chip mounting portion toward four corners of said resin body.

71. (Previously Presented) A semiconductor device according to claim 68,
wherein a portion of said rear surface of said semiconductor chip is adhered to said
first and second portions of said chip mounting portion, and wherein another portion
of said rear surface of said semiconductor chip is contacted with said resin body.

72. (Previously Presented) A semiconductor device according to claim 71,
wherein said semiconductor chip has a tetragonal shape, and wherein said both
ends of each of said first and second portions are located at the vicinity of four
corners of said semiconductor chip.

73. (Currently Amended) A semiconductor integrated circuit device
comprising:

a semiconductor chip having a main surface including semiconductor
elements and a plurality of bonding pads;

a leadframe having:

a chip mounting portion for mounting said semiconductor chip;

suspension leads formed with said chip mounting portion, a width of
said chip mounting portion being wider than a width of each of said
suspension leads,

a plurality of inner lead portions arranged to oppose said
semiconductor chip and being electrically connected with said bonding pads
by bonding wires, and

a plurality of outer lead portions individually connected with said inner
lead portions; and

a resin member sealing said semiconductor chip, said inner lead portions,
said chip mounting portion, said suspension leads and said bonding wires;

wherein said chip mounting portion is smaller than said semiconductor chip
and is positioned under a substantially central portion of said semiconductor chip,
said semiconductor chip is fixed to said chip mounting portion by an adhesive, said
semiconductor chip is fixed to a part of at least one of said suspension leads by an
adhesive which is located under a peripheral portion of said semiconductor chip, and
an adhesive region of said chip mounting portion and said semiconductor chip and
an adhesive region of said at least one of said suspension leads and said
semiconductor chip are positionally separated from each other, and wherein said
suspension leads and said chip mounting portion of said leadframe are continuously
formed in an area of said semiconductor chip.

74. (Currently Amended) A semiconductor integrated circuit device
comprising:

a semiconductor chip having a main surface including semiconductor
elements and a plurality of bonding pads;

a leadframe having:

a cracking suppression means for mounting said semiconductor chip
thereon and for suppressing, during a reflow soldering processing, device
cracking, wherein said cracking suppression means is a chip mounting portion
which is smaller than said semiconductor chip and which is positioned under a
substantially central portion of said semiconductor chip,

suspension leads formed with said cracking suppression means, a width of said cracking suspension means being wider than a width of each of said suspension leads,

a plurality of inner lead portions arranged to oppose said semiconductor chip and being electrically connected with said bonding pads by bonding wires, and

a plurality of outer lead portions individually connected with said inner lead portions; and

a resin member sealing said semiconductor chip, said inner lead portions, said cracking suspension means, said suspension leads and said bonding wires;

wherein said semiconductor chip is fixed to said cracking suppression means by an adhesive, said semiconductor chip is fixed to a part of at least one of said suspension leads by an adhesive which is located under a peripheral portion of said semiconductor chip, and an adhesive region of said cracking suppression means and said semiconductor chip and an adhesive region of said at least one of said suspension leads and said semiconductor chip are positionally separated from each other, and wherein said suspension leads and said cracking suppression means of said leadframe are continuously formed in an area of said semiconductor chip.

75.-76. (Cancelled)

77. (New) A semiconductor device according to claim 63, wherein said rear part of said semiconductor chip is fixed to a part of each of said suspension leads by adhesive.

78. (New) A semiconductor device according to claim 68, wherein said rear part of said semiconductor chip is fixed to a part of each of said suspension leads by adhesive.

79. (New) A semiconductor device according to claim 73, wherein said semiconductor chip is fixed to a part of each of said suspension leads by adhesive.

80. (New) A semiconductor device according to claim 74, wherein said semiconductor chip is fixed to a part of each of said suspension leads by adhesive.